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Patent Number:

FR2804173 A1

20010727

System for ensuring the optimum regeneration of particulates in the filter present in the exhaust system of a Diesel automotive engine

(FR2804173)

SYSYTEME D'AIDE A LA REGENERATION D'UN FILTRE A PARTICULES INTEGRE DANS UNE LIGNE D'ECHAPPEMENT D'UN MOTEUR DIESEL DE VEHICULE AUTOMOBILE

Index Terms:

INTERNAL COMBUSTION ENGINE; DIESEL ENGINE; EXHAUST PIPE; PARTICLE FILTER; REGENERATION;

ADDITIONAL INJECTION; EXHAUST GAS RECIRCULATION; TURBOCOMPRESSOR; OVIDATION

OXIDATION
CATALYST; ADDITIVE;
COMMON RAIL;
ELECTROMAGNETIC
INJECTOR; SENSOR;
TEMPERATURE;
DIFFERENTIAL
PRESSURE; FILTER
STATE; CONTROL;

OXYGEN SENSOR; COORDINATION

TABLE

(FR2804173)

The engine (1) has different organs associated with it, and has a unit (17) for controlling its function, adapted for triggering a phase of regeneration of the particulate filter. The control unit has a unit (18) for estimating the amount of particles to be filtered, connected to a lambda probe proportionally (24) delivering information relative to the oxygen concentration of the exhaust gas. There is a unit (19) for storing a correspondence table containing, as a function of the exhaust gas oxygen content and for each functioning point of the engine, an estimated quantity of particles emitted by the engine, and having members for adding in the quantities, also estimated during the functioning of the engine for determining the particulate load of the filter.

Inventor(s):

SALVAT OLIVIER

LE TALLEC PATRICE

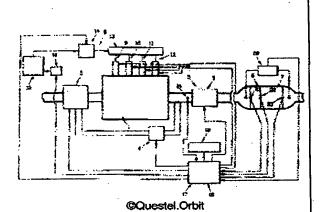
Patent Assignee:

PEUGEOT CITROEN AUTOMOBILES SA

Orig. Patent Assignee: PEUGEOT CITROEN

AUTOMOBILES SA; 62 BOULEVARD VICTOR HUGO 92200 NEUILLY

SUR SEINÉ



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Patent Number: DE19741973 C1 19990422

Method of determining the soot conc. of self-igniting internal combustion engines

(DE19741973)

Verfahren zur Bestimmung der Ru konzentration von selbstzündenden Brennkraftmaschinen

(DE19741973)

the method involves deriving the soot conc. using a neural network (202) which is trained using input data (201) characteristic of the soot conc. (203) with associated signals representing the soot conc. Finally, the soot conc. is derived from acquired input data using the trained neural network

inventor(s):

BARGENDE MICHAEL DIPL ING

BAIER THOMAS

KOEHLER JUERGEN DIPL ING

Patent Assignee: DAIMLER CHRYSLER AG

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